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TECHNICAL NOTE

Filing Code 1615

Date Issued February 1970

Bureau of Land Management U.S. DEPARTMENT OF THE INTERIOR

BACKSLOPE BOARD

A monetary award has been granted to Jon F. Ehlers of the Salem District Office for suggesting the following method as an alternative means of checking backslopes on road construction jobs. The present method is to use an abney or rod and hand level. The change in elevation is found and the horizontal distrance from the top of the cut bank to the bottom of the ditch. With this information the correct backslope is calculated.

Using the backslope board suggested by Mr. Ehlers (Illustration I) all that is required to read the correct backslope is to extend the board and lay it against the backslope, then the backslope can be read direct. The use of the backslope board can reduce time required by conventional means by approximately 25%.

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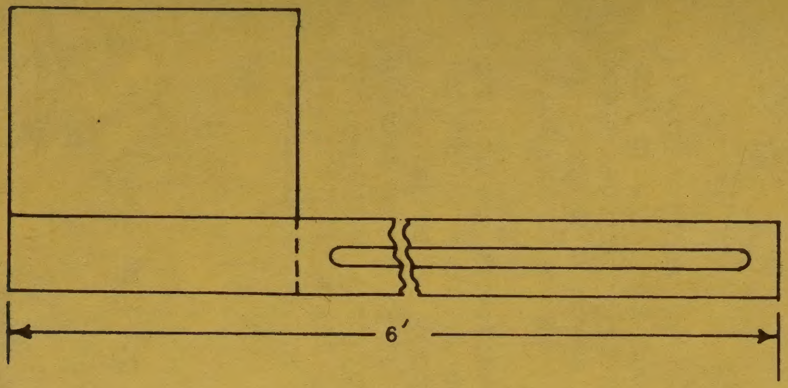
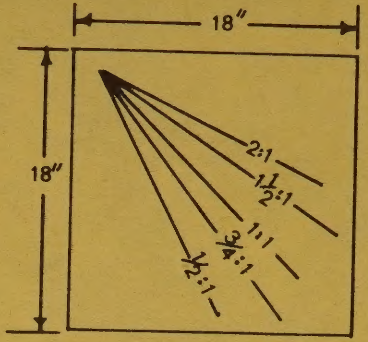
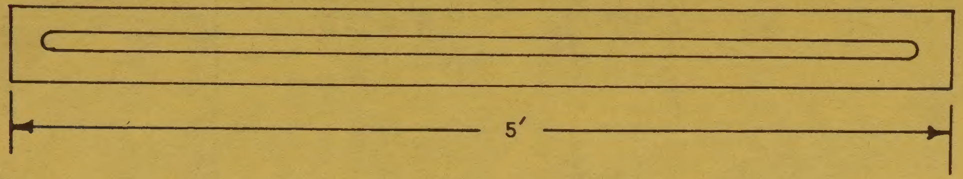
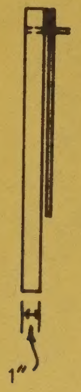
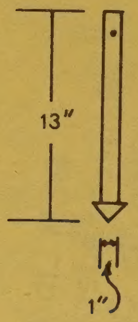


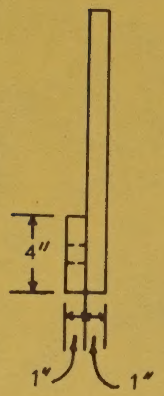




The face of the slope board is made of 1" ext. plywood 18" sp. with the common backslopes calculated on it. A marker made of 1/4" plywood, or metal, is attached to the point where all the backslope lines intersect. (See drawing) Be sure arm will swing free. Use a 1/4" bolt to attach arm. Then attach slope board to the 6' 1"x4". Attach it to the end without the notch cut out of the center. To attach the 5' 1"x4" to the 6' 1"x4" use 1/4" bolts with wing nuts and 4 flat washers. Attach the two together through the notch, and by loosing the wing nuts the 1"x4" may be extended to 10'.







BACKSLOPE BOARD
Jon F. Ehlers - 7/23/68
4110 Schafer Ave. N.E.
Salem, Oregon